

**SOLID-STATE IMAGE PICKUP DEVICE AND DRIVING METHOD THEREFOR**

Patent Number: JP10322599  
Publication date: 1998-12-04  
Inventor(s): MIURA HIROKI  
Applicant(s):: TOSHIBA CORP  
Requested Patent: ☐ JP10322599  
Application Number: JP19980042066 19980224  
Priority Number(s):  
IPC Classification: H04N5/335 ; H01L27/146  
EC Classification:  
Equivalents:

---

**Abstract**

---

**PROBLEM TO BE SOLVED:** To suppress the dispersion of the electric charge amount to leak in at the time of emission and non-emission of an LED, to increase the signal charge amount without increasing the number of LEDs and to facilitate sensitivity control.

**SOLUTION:** A photodiode 24 is connected through a transfer transistor 25 to sample-and-hold(S/H) transistors 26a and 26b for transferring electric charges to S/H capacitors 32a and 32b and connected through the transfer transistor 25 to a reset transistor 27 and an amplifier transistor 28. Besides, an address transistor 29 is connected to the amplifier transistor 28. The S/H capacitors 32a and 32b are arranged at positions symmetric to the center of (n) diffusion layers at the photodiode 24.

---

Data supplied from the esp@cenet database - I2